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Miniature Power Relay T7N / T7N-WG

1pole 10A

Jameco Part Number 192778

F0189-B

- 1C/O or 1N/O contact
- Sensitive 360mW coil as standard
- Creepage/clearance to VDE 0435
- Version T7N-WG with tracking resistance CTI 325

Applications
Domestic appliances, heating control, building control, measurement&control

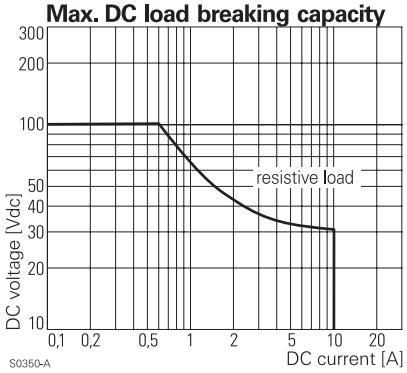
T7N:

T7N-WG:

Technical data of approved types on request

Contact data	T7N	T7N-WG
Configuration	1 C/O contact or 1 N/O contact	
Type of contact	single contact	
Rated current N/O contact / N/C contact	10 / 5 A	
Continuous thermal load	10 A	
Rated voltage / max.breaking voltage AC	250 Vac / 250 Vac	
Maximum breaking capacity AC	2500 VA	
Make current (max. 4 s at duty cycle 10%)	35 A	
Contact material	AgCdO, $AgSnO_2$	AgCdO

Max. DC load breaking capacity



Contact life

Type	Load	Operations
AgCdO	10 A, 240 Vac	$100x10^3$

Coil data	T7N	T7N-WG
Nominal voltage	6...48 Vdc	12...48 Vdc
Nominal coil power	360 mW	450 mW
Operate power	176 mW	253 mW
Operate category	1 / c	2 / b
Operate voltage max.	70 % U_{nom}	70 % U_{nom}
Non-release voltage	50 % U_{nom}	50 % U_{nom}
Release voltage min.	5 % U_{nom}	10 % U_{nom}

Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
Version T7N						
06	6	4.2	0.3	12.5	100±10%	60.0
12	12	8.4	0.6	25.0	400±10%	30.0
24	24	16.8	1.2	50.0	1600±10%	15.0
36	36	25.2	1.8	73.0	3600±10%	10.0
48	48	33.6	2.4	100.0	6400±10%	7.0
Version T7N-WG						
12	12	8.4	1.2	25.0	320±10%	37.5
24	24	16.8	2.4	50.0	1280±10%	18.8
36	36	25.2	3.6	73.0	2880±10%	12.5

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

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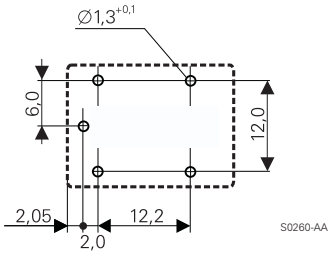
Insulation	**T7N**	**T7N-WG**
Dielectric strength coil-contacts	2000 V_{rms}	
open contact circuit	1000 V_{rms}	
Surge voltage resistance coil-contacts	4000 V_{rms} (1.2 / 50µs)	
Clearance / creepage	2 / 3 mm	3 / 4 mm
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage	C / 250	
Insulation resistance	100x10^6 Ω	
Tracking resistance of relay base	CTI 225	CTI 325

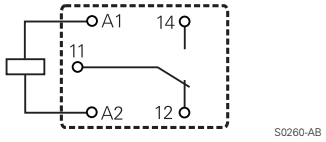
Other data	
Flammability class UL	V-0
Ambient temperature	-40...+85 °C (105 °C)
Mechanical life	10x10^6 operations
Max. switching rate at rated- / minimum load	30 min^{-1} / 300 min^{-1}
Operate- / release time	10 / 5 ms
Bounce time N/O contact / N/C contact	0.6 / 17 ms
Vibration resistance	>10 g
Shock resistance (function)	>10 g
Shock resistance (destruction)	>100 g
Protection category	IP67
Relay weight	11 g
Packaging unit	500 pcs.

PCB layout / terminal assignment

View on solder pins

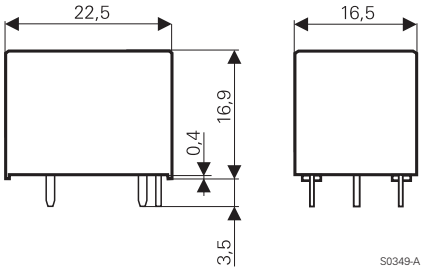
Dimensions in mm

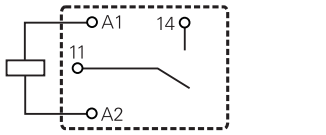




Dimensions

Dimensions in mm





Ordering key

T	7	N	S		D			

Type

Version
- **S** washable

Contacts
- **1** 1 N/O contact
- **5** 1 C/O contact

Coil version
- **D** DC coil

Contact material
- **1** AgCdO
- **4** $AgSnO_2$

Coil
- coil code: please refer to coil versions table

Ordering key for T7N-WG and other types on request

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